

CLAIMS

What is claimed is:

1. A method of coating a glass substrate, said method comprising:
 - (a) providing a glass substrate; and
 - (b) contacting the glass substrate with a coating composition comprising an epoxy resin reaction product of epichlorohydrin and a component selected from the group consisting of bisphenol A and bisphenol F.
2. The method according to claim 1, wherein the coating composition further comprises a water-dilutable epoxy resin hardener in an amount of from 1 to 98% by weight and water in an amount of from 1 to 98% by weight, and wherein the epoxy resin reaction product is present in an amount of from 1 to 98% by weight.
3. The method according to claim 1, wherein the epoxy resin reaction product is liquid at 20°C.
4. The method according to claim 1, wherein the epoxy resin reaction product comprises a reaction product of epichlorohydrin and bisphenol A.
5. The method according to claim 1, wherein the glass substrate comprises a glass fiber.
6. A coated glass fiber prepared by the process comprising:
 - (a) providing a glass fiber to be coated;
 - (b) providing a coating composition comprising an epoxy resin reaction product of epichlorohydrin and a component selected from the group consisting of bisphenol A and bisphenol F in an amount of from 1 to 98% by weight, a water-dilutable epoxy resin hardener in an amount of from 1 to 98% by

weight and water in an amount of from 1 to 98% by weight; and

(c) contacting at least a portion of the glass fiber with the coating composition.

7. The coated glass fiber according to claim 6, wherein the epoxy resin reaction product is liquid at 20°C.

8. The coated glass fiber according to claim 6, wherein the epoxy resin reaction product comprises a reaction product of epichlorohydrin and bisphenol A.

9. A method of reinforcing synthetic fiber, said method comprising:
(a) providing a synthetic fiber;
(b) providing a coated glass fiber according to claim 6; and
(c) combining the synthetic fiber and the coated glass fiber.

10. A composite material comprising a coated glass fiber according to claim 6 and one or more other materials or fillers.